

Mini Project Week 6

Let's now maintain all our data in the database. We'll create an orders table and an order status table and refactor our app to make use of it.

Goals

As a user I want to:

- create a product, courier, or order and add it to a table
- view all products, couriers, or orders
- update the status of an order
- persist my data in a database
- *STRETCH* delete or update a product, order, or courier
- *BONUS* display orders by status or courier
- *BONUS* CRUD a list of customers
- *BONUS* track my product inventory
- *BONUS* import/export my entities in CSV format

Spec

- A row in the **products** table should contain the following information:

```
{
  "id": 4,
  "name": "Coke Zero",
  "price": 0.8
}
```

- A row in the **couriers** table should contain the following information:

```
{
  "id": 2,
  "name": "Bob",
  "phone": "0789887889"
}
```

- A row in the **orders** table should contain the following information:

```
{
  "id": 1,
  "customer_name": "John",
  "customer_address": "Unit 2, 12 Main Street, LONDON, WH1 2ER",
  "customer_phone": "0789887334",
}
```

```
"courier": 2, // Courier ID
"status": 1, // Order status ID
"items": "1, 3, 4" // Product IDs
}
```

- A row in the `order_status` table should contain the following information:

```
{
  "id": 1,
  "order_status": "preparing"
}
```

```
# we are no longer reading products, couriers, orders and order statuses
from files
# we are now reading data from database tables
```

```
PRINT main menu options
GET user input for main menu option
```

```
IF user input is 0:
  EXIT app
```

```
# products menu
ELSE IF user input is 1:
  PRINT product menu options
  GET user input for product menu option
```

```
IF user inputs 0:
  RETURN to main menu
```

```
# WEEK 5 UPDATE
ELSE IF user input is 1:
  GET all products from products table
  PRINT products
```

```
# WEEK 5 UPDATE
ELSE IF user input is 2:
  # CREATE new product
```

```
  GET user input for product name
  GET user input for product price
  INSERT product into products table
```

```
# WEEK 5 UPDATE
ELSE IF user input is 3:
  # STRETCH GOAL – UPDATE existing product
```

```
  GET all products from products table
```

```
    PRINT products with their IDs
    GET user input for product ID

    GET user input for product name
    GET user input for product price

    IF any inputs are empty, do not update them
    UPDATE properties for product in product table

# WEEK 5 UPDATE
ELSE IF user input is 4:
    # STRETCH GOAL – DELETE product

    GET all products from products table
    PRINT products with their IDs

    GET user input for product ID
    DELETE product in products table

# couriers menu
ELSE IF user input is 2:
    PRINT courier menu options
    GET user input for courier menu option

    IF user inputs 0:
        RETURN to main menu

# WEEK 5 UPDATE
ELIF user inputs 1:
    GET all couriers from couriers table
    PRINT couriers

# WEEK 5 UPDATE
ELSE IF user input is 2:
    # CREATE new courier

    GET user input for courier name
    GET user input for courier phone number
    INSERT courier into couriers table

# WEEK 5 UPDATE
ELSE IF user input is 3:
    # STRETCH GOAL – UPDATE existing courier

    GET all couriers from couriers table
    PRINT couriers with their IDs
    GET user input for courier ID

    GET user input for courier name
    GET user input for courier phone number

    IF an input is empty, do not update its respective table property
    UPDATE properties for courier in courier table
```

```
# WEEK 5 UPDATE
ELSE IF user input is 4:
    # STRETCH GOAL – DELETE courier

    GET all couriers from couriers table
    PRINT courier with their IDs

    GET user input for courier ID
    DELETE courier in couriers table

# orders menu
ELSE IF user input is 3:
    PRINT order menu options
    GET user input for order menu option

    IF user input is 0:
        RETURN to main menu

# WEEK 6 UPDATE
ELSE IF user input is 1:
    GET all orders from orders table
    PRINT orders

# WEEK 6 UPDATE
ELSE IF user input is 2:
    # CREATE order

    GET user input for customer name
    GET user input for customer address
    GET user input for customer phone number

    GET all products from products table
    PRINT products
    GET user inputs for comma-separated list of product IDs
    CONVERT above user input to string e.g. "1,3,4"

    GET all couriers from couriers table
    PRINT couriers
    GET user input for courier ID

    SET order status to be 1
    INSERT order into orders table

# WEEK 6 UPDATE
ELSE IF user input is 3:
    # UPDATE existing order status

    GET all orders from orders table
    PRINT orders with their IDs

    GET user input for order ID

    GET all order statuses from order_status table
    PRINT order statuses
```

```
GET user input for the updated order status ID
```

```
UPDATE status for the order
```

```
# WEEK 6 UPDATE
```

```
ELSE IF user input is 4:
```

```
  # STRETCH – UPDATE existing order
```

```
    GET all orders from orders table
```

```
    PRINT orders with their IDs
```

```
    GET user input for order ID
```

```
    GET user input for customer name
```

```
    GET user input for customer address
```

```
    GET user input for customer phone number
```

```
    GET all products from products table
```

```
    PRINT products
```

```
    GET user inputs for comma-separated list of product IDs
```

```
    CONVERT above user input to a string e.g. "2,1,3"
```

```
    GET all couriers from couriers table
```

```
    PRINT couriers
```

```
    GET user input for courier ID
```

```
    IF an input is empty, do not update its respective table property
```

```
    UPDATE order in orders table
```

```
# WEEK 6 UPDATE
```

```
ELSE IF user input is 4:
```

```
  # STRETCH GOAL – DELETE order
```

```
    GET all orders from orders table
```

```
    PRINT orders with their IDs
```

```
    GET user input for order ID
```

```
    DELETE order in orders table
```